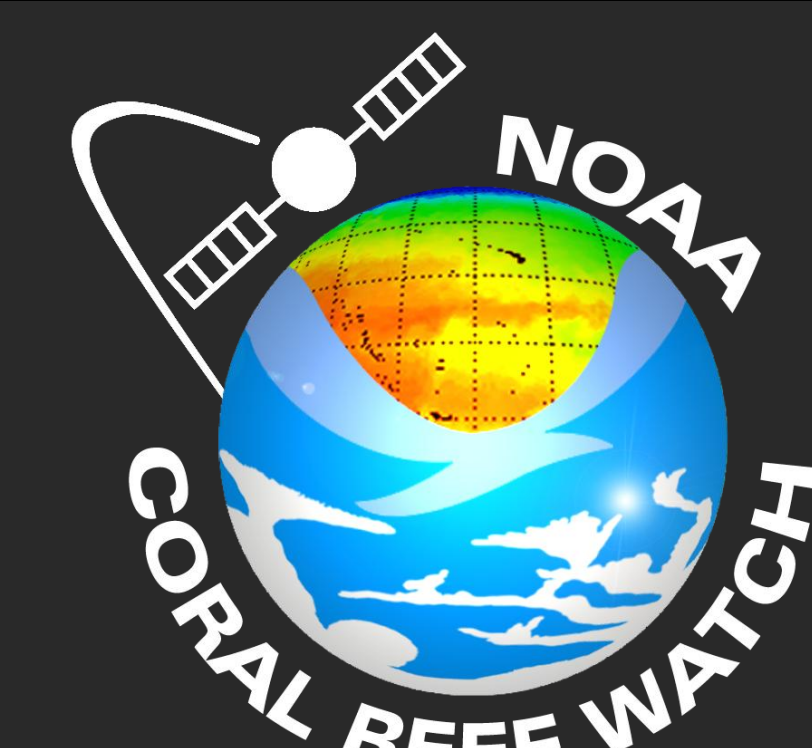


Application of NOAA Coral Reef Watch's Near-Real-Time Satellite Decision Support System to Local Coral Reef Management

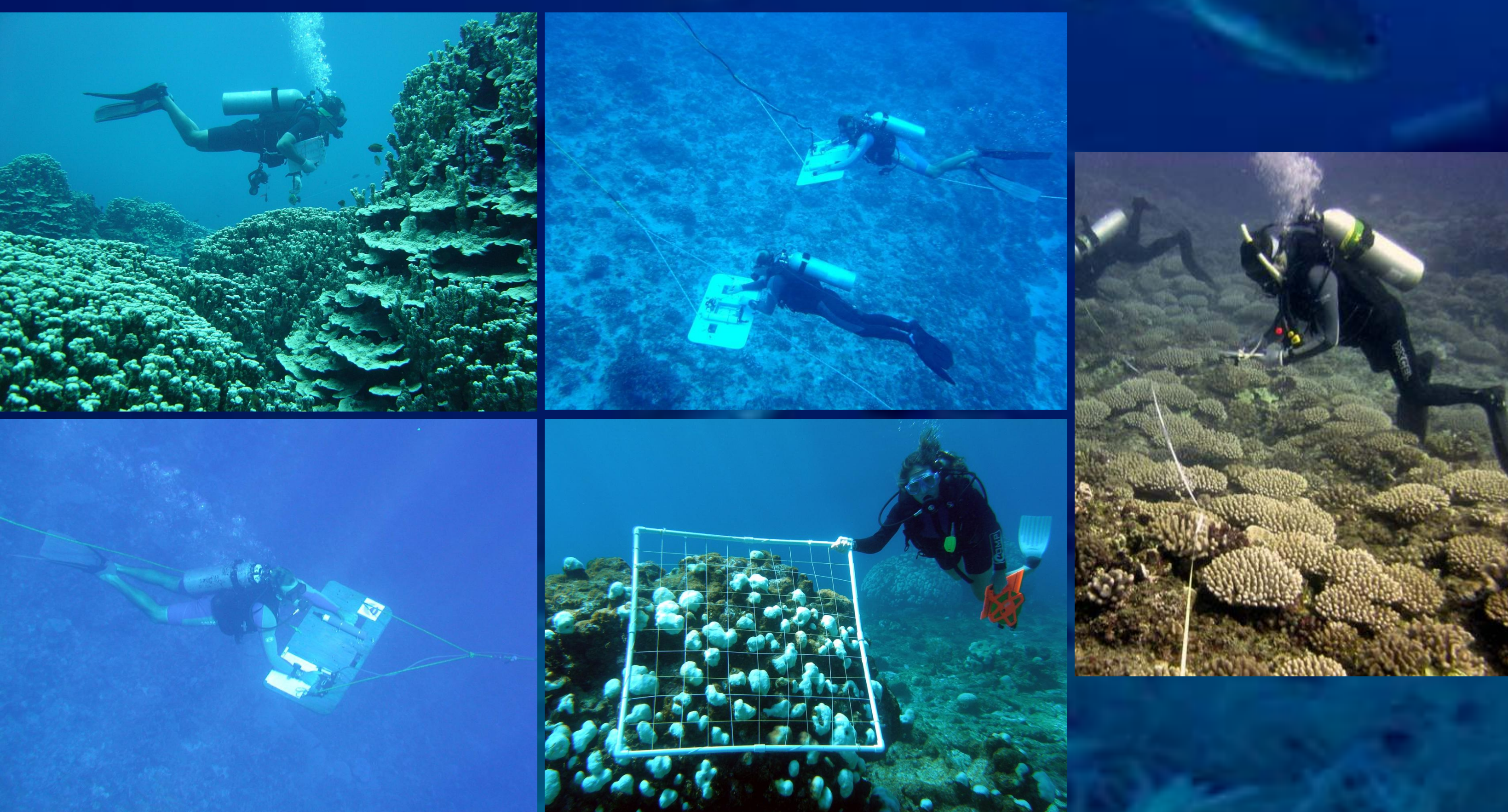


Jacqueline L. Rauenzahn, C. Mark Eakin, Gang Liu, Jianke Li, Scott F. Heron, William Skirving, Alan E. Strong

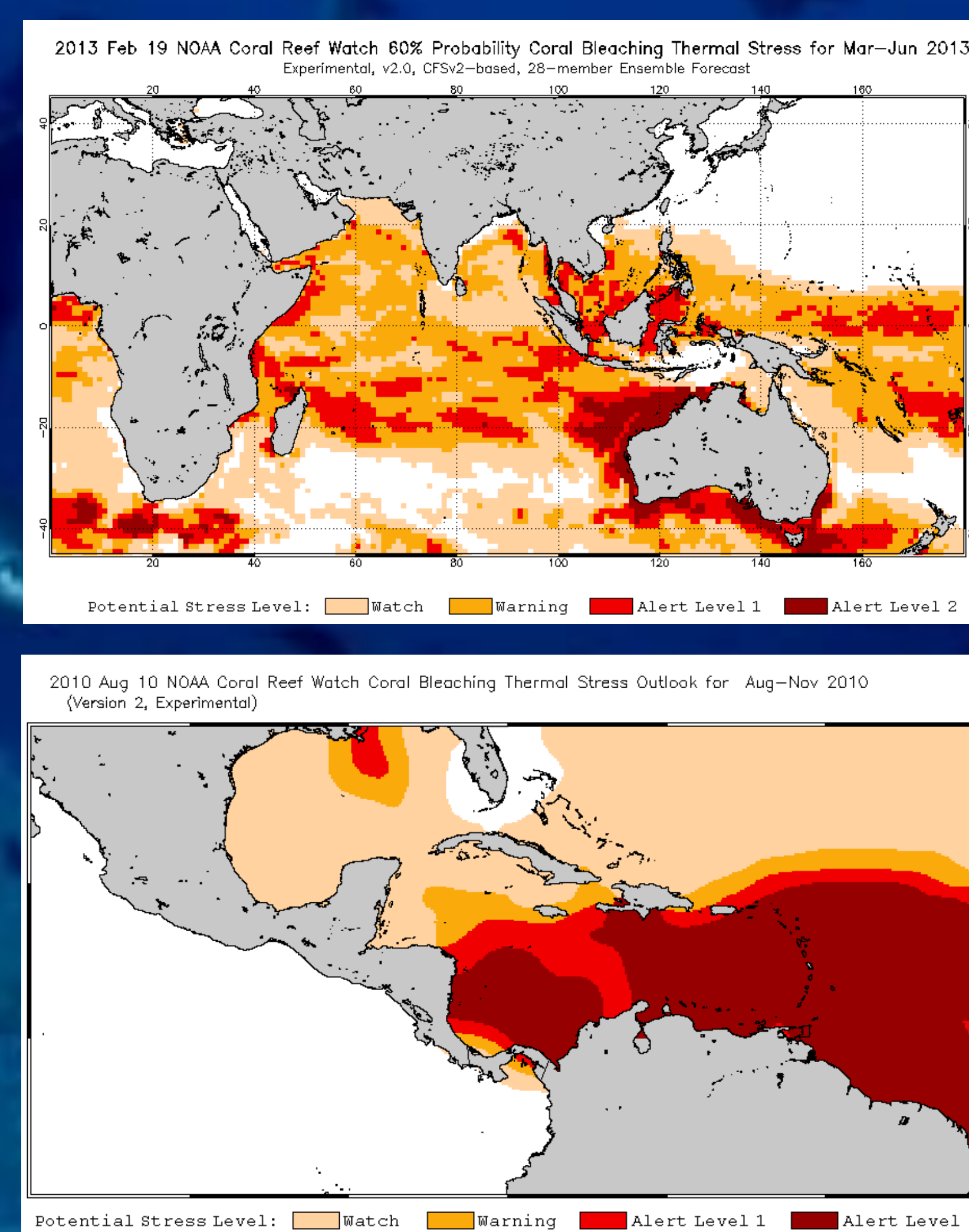
coralreefwatch@noaa.gov, NOAA Coral Reef Watch, E/RA3, NCWCP, 5830 University Research Court, College Park, MD 20740 USA

Multiple natural and anthropogenic stressors impact coral reef ecosystems and contribute to bleaching, slower growth, infectious diseases, and mortality. Satellite-based observations monitor, at local, regional, and global scales, environmental conditions influencing coral reef health. NOAA Coral Reef Watch (CRW) utilizes remote sensing, *in situ*, and modeled data to develop, maintain, enhance, operate, and deliver online a global decision support system (DSS) to help reef managers (target audience) and other stakeholders around the world prepare for and respond to coral reef ecosystem stressors related to climate change. This poster discusses different applications of the near-real-time satellite-based products in NOAA CRW's DSS to local coral reef management. CRW engages and interacts directly with key management stakeholders in the field to incorporate local user feedback into the development and improvement of new and existing products, so that CRW can continue to provide reef managers worldwide with climate-quality, consistent, authoritative information on the present and future severity of threats that lead to coral bleaching.

Guide local & regional management responses to acute coral bleaching stress in near-real-time



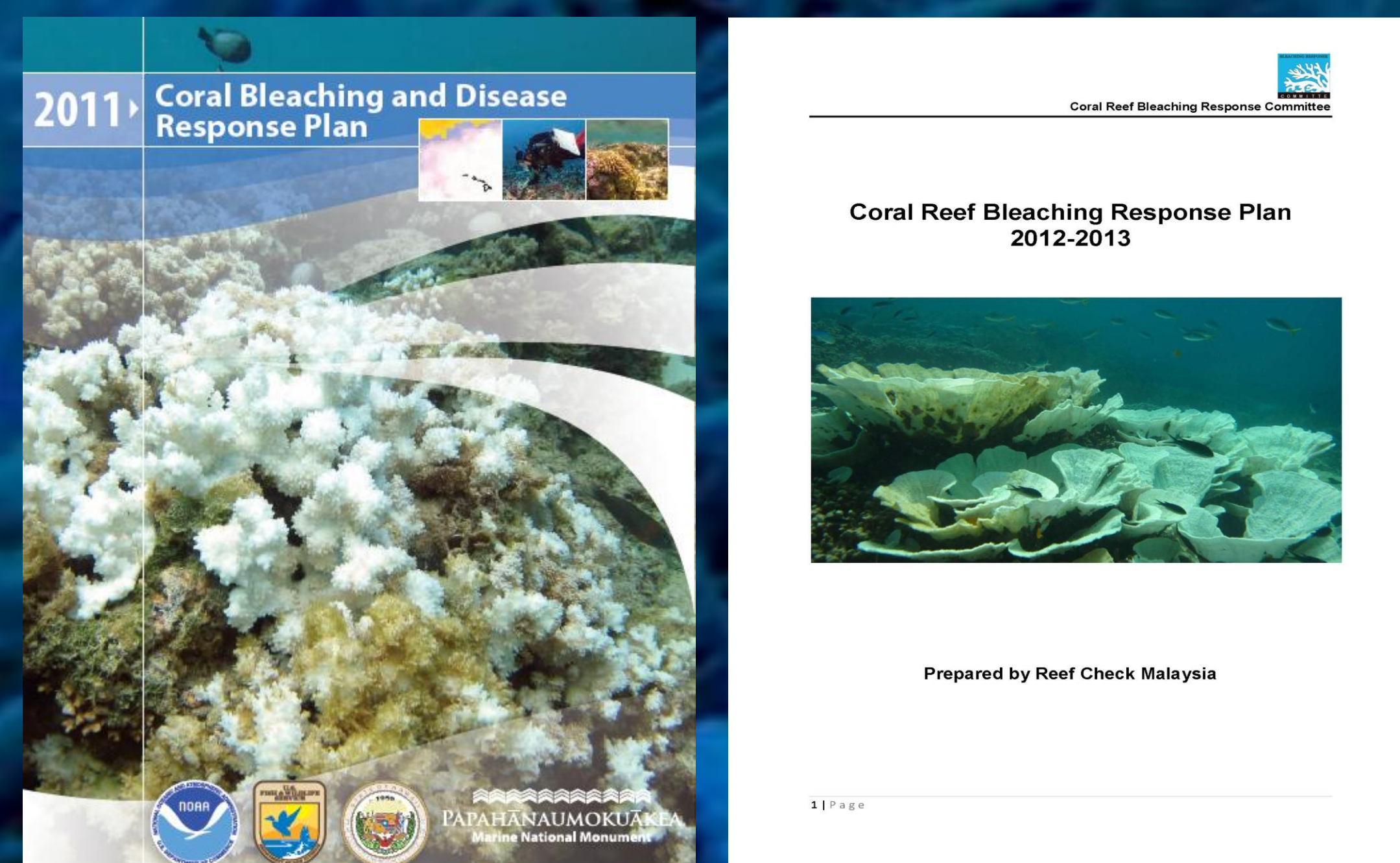
Provide climate outlooks for effective management planning/resource allocation



Assist in comprehensive risk assessments of climate impacts to coral ecosystems



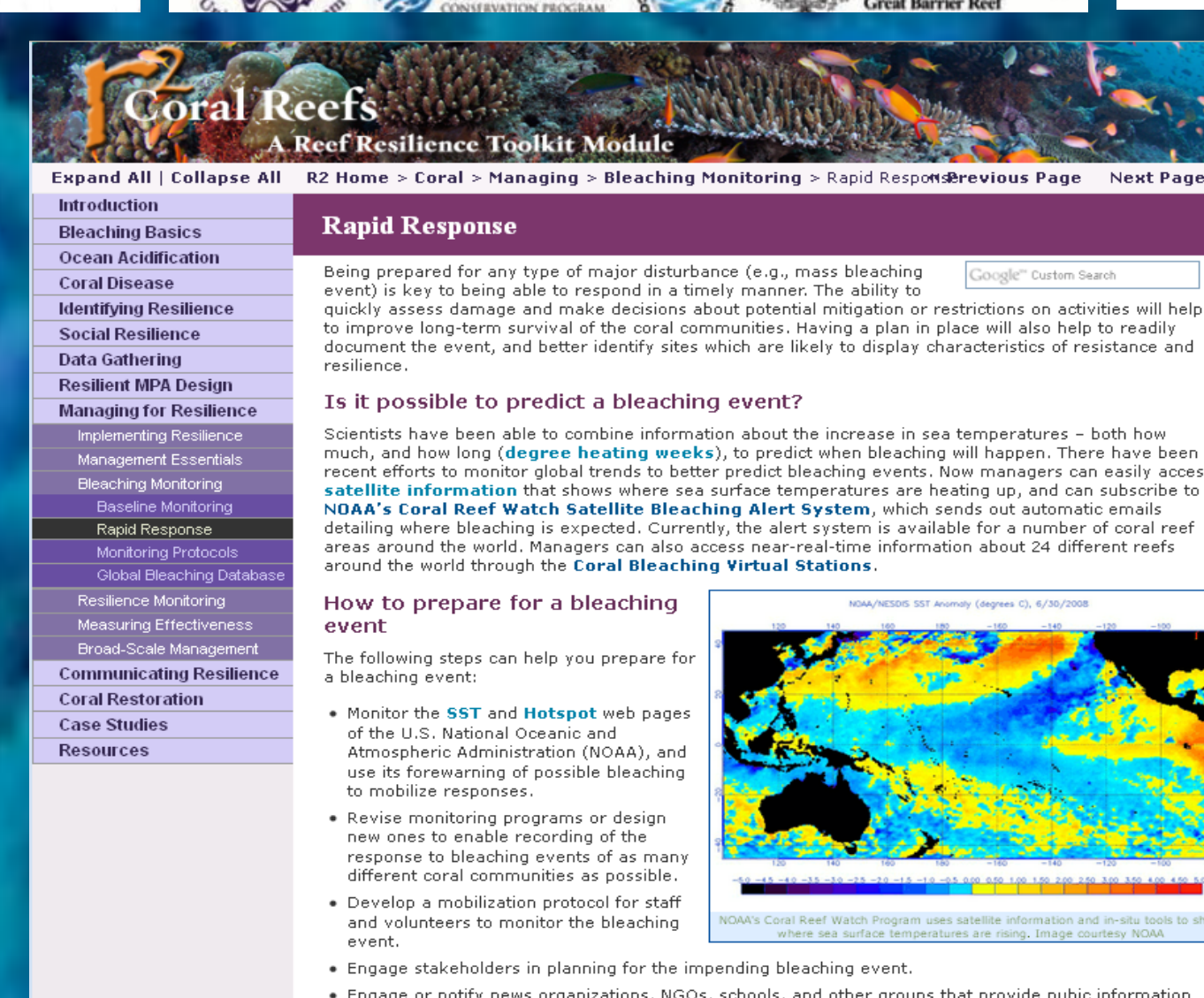
Contribute to regional & local coral bleaching/disease response plans



Contribute to reef resilience capacity building, responding to climate change training, and MPA design



The Florida Reef System:
Coral Bleaching Response Plan



<http://coralreefwatch.noaa.gov>

